

ABSTRACT

A transport system is provided, which has the capability of increasing a gripping force (contact pressure) of a drive wheel on a rail at a slop region of the rail to safely and efficiently transport an object. This transport system has a main rail, a vehicle carrying the drive wheel rotatable on the main rail and a drive unit for the drive wheel, a coupling unit connected at its one end to the vehicle and at the other end to the object, an auxiliary rail formed under the main rail at the slope region of the main rail, an auxiliary wheel held by the coupling unit to be rotatable on the auxiliary rail without contacting the main rail, and an elastic-force loading unit configured to apply an elastic force in a direction of pressing the auxiliary wheel against the auxiliary rail.